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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-19-100** **Date: 09-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-100 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

Note:
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All information furnished by Customer/Representative
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-19-100** **Date: 13-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-100 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	_
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-19-100** **Date: 13-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-100 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-19-100** **Date: 12-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-100 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-09-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	145	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	156	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	188	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	175	750	75.0	25.0	5-20	8-30	12-40	15-50
7	150 micron	162	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/09/2018

Lab ID	:	CP-2018-12-19-100
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	17/09/2018	24/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/09/2018

Lab ID	:	**CP-2018-12-19-100**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	17/09/2018	24/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/09/2018

Lab ID	:	**CP-2018-12-19-100**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	17/09/2018	24/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/09/2018

Lab ID	:	**CP-2018-12-19-100**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /07
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	17/09/2018	24/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 15/10/2018

Lab ID	:	CP-2018-12-19-100
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Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G.K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	15/10/2018	151.52 X 149.38 X 149.26	22633	8.953	520.8	23.0	23.0
2	Drain Concrete	M20	17/09/2018	15/10/2018	150.56 X 150.63 X 150.42	22678	8.495	501.0	22.1	
3	Drain Concrete	M20	17/09/2018	15/10/2018	149.59 X 151.21 X 150.05	22619	8.034	542.4	24.0	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Format No: CP/TF/01

Date: 24/09/2018

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Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
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Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /09
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	17/09/2018	24/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	17/09/2018	24/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/10/2018

Lab ID	:	**CP-2018-12-19-100**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to start the work of providing balance work to meeting hall at judicial layout in ward no.04
Agency	:	Sri.S.Somashekar,NO:15/44/01,Allalasandra G K.V.K.Post,Yelahanka Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/45/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-18
Sample ID No	:	2018-12-19-100 /10
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/09/2018	15/10/2018	151.08 X 149.22 X 151.65	22544	8.953	530.4	23.5	23.5
2	Drain Concrete	M20	17/09/2018	15/10/2018	149.72 X 150.63 X 150.25	22553	8.495	516.8	22.9	
3	Drain Concrete	M20	17/09/2018	15/10/2018	149.74 X 149.60 X 150.42	22401	8.034	535.7	23.9	

Note:

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Quality Manager

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Page 1/1
****End of Report****